

IN THE CLAIMS:

Please cancel claims 1-69 in their entirety without prejudice nor disclaimer of the subject matter set forth therein.

Please add new claims 70-85 as follows:

70. (New) A digital broadcast receiver which allows a viewer to switch to content elements selected in response to an operation input by the viewer,

said digital broadcast receiver comprising

a receiving portion for receiving transmitted data,

an operation receiving portion for receiving an operator operation, and

a restoring portion for determining which content element to restore next based on the operation received by the operation receiving portion and in accordance with the navigation control data, for selecting a content element to be restored next out of content elements transmitted repeatedly, and for restoring the element for output, in a receiving mode; for restoring and recording a set of navigation control data and a set of content elements, in a recording mode; and for selecting a content element from a set of content elements for output, based on the operation received by the operation receiving portion and in accordance with the recorded navigation control data, in a reproducing mode,

wherein said restoring portion determines whether or not all content elements included in the sets of content elements have been recorded, in accordance with a received content element list in the recording mode.

71. (New) The digital broadcast receiver according to Claim 70,

wherein said restoring portion fetches a target content element from elementary streams in accordance with fetch control data for identifying content elements with a series of sequential information attached thereto in accordance with said series of information, in the receiving mode and recording mode.

72. (New) The digital broadcast receiver according to Claim 71,
wherein time information is utilized as said series of information, and said content elements are dynamic video image data or audio data which are sliced in said elementary streams in accordance with a start time and termination time of said time information.

73. (New) The digital broadcast receiver according to Claim 71,
wherein time information is utilized as said series of information, and
said content elements are still video image data which are sliced in said elementary streams in accordance with said time information.

74. (New) The digital broadcast receiver according to Claim 71,
wherein said content element list is list of fetch control data corresponding to content elements.

75.(New) A digital broadcast receiver which allows a viewer to switch to content elements selected in response to an operation input by the viewer,
said digital broadcast receiver comprising
a receiving portion for receiving transmitted data,
an operation receiving portion for receiving an operator operation, and
a restoring portion for determining which content element to restore next based on the operation received by the operation receiving portion and in accordance with the navigation control data, for selecting a content element to be restored next out of content elements transmitted repeatedly, and for restoring the element for output, in a receiving mode; for restoring and recording a set of navigation control data and a set of content elements, in a recording mode; and for selecting a content element from a set of content elements for output,

based on the operation received by the operation receiving portion and in accordance with the recorded navigation control data, in a reproducing mode,

wherein said restoring portion determines whether or not all navigation control data included in sets of navigation data have been recorded, in accordance with a received navigation list in the recording mode.

76. (New) The digital broadcast receiver according to Claim 74, wherein said restoring portion extracts all target fetch control data without specifying order of extracting the fetch control data to be extracted, and records content elements in sequence in the order of obtaining fetch control data, in the recording mode.

77. (New) The digital broadcast receiver according to Claim 74, wherein said restoring portion extracts all target fetch control data without specifying order of extracting the fetch control data to be extracted, and records navigation control data in sequence in the order of obtaining navigation control data, in the recording mode.

78. (New) The digital broadcast receiver according to Claim 74, wherein said restoring portion in the recording mode extracts all target fetch control data without specifying order of extracting the fetch control data to be extracted, and records content elements in sequence in the order of obtaining fetch control data while a number of unrecorded fetch control data remains, and

when a small number of unrecorded fetch control data remains, specifies said unrecorded fetch control data in order to be fetched and recorded.

79. (New) The digital broadcast receiver according to Claim 70, wherein said restoring portion in the recording mode extracts all target navigation control data without specifying order of the navigation control data to be extracted, and records content

elements in sequence in the order of obtaining navigation control data while a number of unrecorded navigation control data remains, and

when a small number of unrecorded navigation control data remains, specifies said unrecorded navigation control data in order to be fetched and recorded.

80. (New) The digital broadcast receiver according to Claim 70, wherein said restoring portion associates an expiration date transmitted corresponding to a set of content elements or a set of navigation control data with the set of content elements for recording thereof in the recording mode; and does not output said set of content elements if said expiration date has expired or outputs the same together with information that said expiration date has expired, in the reproducing mode.

81. (New) The digital broadcast receiver according to Claim 80, wherein said expiration data is described in PMT, content element list or navigation list.

82. (New) A digital broadcast recorder for recording digital broadcast which allows a viewer to switch to content elements selected in response to an operation input by the viewer,

said digital broadcast recorder comprising

a receiving portion for receiving transmitted data, and

a recording portion which fetches a target content element from elementary streams in accordance with fetch control data for identifying content elements with a series of sequential information attached thereto in accordance with said series of information, and which restores a set of content elements for recording thereof and as well records a set of navigation control data,

wherein said recording portion determines whether or not all content elements included in the sets of content elements have been recorded, in accordance with a received content element list in the recording mode.

83. (New) A digital broadcast receiver comprising

- a receiving portion for receiving transport streams,
- an operation receiving portion for receiving an operator operation,
- a transport decoder for selecting at least desired navigation control data and content elements from received transport streams in accordance with the operator operation for output,
- an extending decoder for extending output from the transport decoder,
- a CPU for controlling each aforementioned portion,
- a memory which records a program for determining control contents of said CPU, and
- a recording portion for recording;

said digital broadcast receiver wherein

said program allows the CPU to perform processing for determining content elements to be restored next based on the operation received by the operation receiving portion in accordance with the navigation control data, separating the content elements to be restored next out of sets of content elements transmitted repeatedly by means of the transport decoder, and restoring the same for output by extending the same by means of the extending decoder, in the receiving mode; restores a set of navigation control data and a set of content elements for recording the same in the recording portion in a recording mode; and selecting a content element out of a recorded set of content elements in the reproducing mode, based on the operation received by the operation receiving portion in accordance with the navigation control data recorded in the recording portion,

wherein said program determines whether or not all navigation control data included in sets of navigation data have been recorded, in accordance with a received navigation list in the recording mode.

84. (New) A recording medium which records a program for allowing a CPU to perform reception processing; the CPU controlling a receiving portion for receiving transport streams, an operation receiving portion for receiving an operator operation, a transport decoder for selecting at least desired navigation control data and content elements from received transport streams in accordance with the operator operation for output, an extending decoder for extending output from the transport decoder, and a recording portion for recording;

said recording medium for recording a program which allows the CPU to perform processing for determining content elements to be restored next based on the operation received by the operation receiving portion in accordance with the navigation control data, separating the content elements to be restored next out of sets of content elements transmitted repeatedly by means of the transport decoder, and restoring the same for output by extending the same by means of the extending decoder, in the receiving mode; restoring a set of navigation control data and a set of content elements for recording the same in the recording portion in a recording mode; and selecting a content element out of a recorded set of content elements in the reproducing mode, based on the operation received by the operation receiving portion in accordance with the navigation control data recorded in the recording portion.

wherein said program determines whether or not all navigation control data included in sets of navigation data have been recorded, in accordance with a received navigation list in the recording mode.

85. (New) A digital broadcast receiver which allows a viewer to switch to content elements selected in response to an operation input by the viewer,

said digital broadcast receiver comprising

a receiving portion for receiving transmitted data,

an operation receiving portion for receiving an operator operation, and

a restoring portion for determining which content element to restore next based on the operation received by the operation receiving portion and in accordance with link information in the content elements, for selecting a content element to be restored next out of content elements transmitted repeatedly, and for restoring the element for output, in a receiving mode; for restoring and recording a set of content elements, in a recording mode; and for selecting a content element from a set of recorded content elements for output, based on the operation received by the operation receiving portion and in accordance with link information in the content elements, in a reproducing mode,

wherein said restoring portion determines whether or not all content elements included in the sets of content elements have been recorded, in accordance with a received content element list in the recording mode.